



Water-Data Report 2006

**01378560 COLES BROOK AT HACKENSACK, NJ**

HACKENSACK RIVER BASIN

LOCATION.--Lat 40°54'40", long 74°02'25" referenced to North American Datum of 1983, Hackensack City, Bergen County, NJ, Hydrologic Unit 02030103, at bridge on Main Street in Hackensack, 0.8 mi above mouth, and 1.9 mi northwest of Teaneck.

DRAINAGE AREA.--7.00 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1965-72. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 16, 2005	4.02
Feb 7, 2006	6.20
Jun 5, 2006	4.49
Aug 9, 2006	1.91

## 01378560 COLES BROOK AT HACKENSACK, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1965, 1967, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Urban Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 5.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 4

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Nov 16...	1020	4.0	1.8	.140	.110	764	7.4	70	7.0	735	21.5	13.1	230
Feb 07...	0920	6.2	3.5	.121	.091	760	12.7	97	7.5	670	5.0	4.1	190
Jun 05...	0940	4.5	3.2	.226	.169	756	6.5	68	7.3	452	19.5	17.6	130
Aug 09...	1220	1.9	4.1	.096	.072	762	6.2	71	7.6	803	25.0	21.6	240

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 4

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 16...	69.1	14.7	3.38	50.6	142	121	E.07	15.5	26.3	390	418	3	.37
Feb 07...	59.0	11.2	1.97	55.2	120	114	E.09	12.0	28.1	361	369	3	.31
Jun 05...	40.6	7.70	2.59	32.8	96	66.9	.10	10.1	16.5	239	257	3	.65
Aug 09...	70.5	15.0	2.55	57.9	153	142	E.09	12.7	22.7	419	472	7	.57

01378560 COLES BROOK AT HACKENSACK, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 4

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Particulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
<b>Nov</b> <b>16...</b>	.047	.97	.09	1.3	1.4	.038	.023	.064	.6	<.1	.6	4.0	E1.0
<b>Feb</b> <b>07...</b>	.036	1.62	.04	1.9	2.0	E.009	.009	.036	.5	<.1	.5	3.2	E1.2
<b>Jun</b> <b>05...</b>	.164	.86	.07	1.5	1.6	.040	.056	.108	.5	<.1	.5	5.7	E1.3
<b>Aug</b> <b>09...</b>	.044	.78	.16	1.4	1.5	.022	.024	.089	.9	<.1	.9	3.2	E2.1

**WATER-QUALITY  
DATA**

**WATER YEAR  
OCTOBER 2005 TO  
SEPTEMBER 2006**

Part 4 of 4

[Remark codes:  
<, less than;  
E, estimated.]

Date	Boron, water, fltrd, ug/L (01020)
<b>Nov</b> <b>16...</b>	45
<b>Feb</b> <b>07...</b>	31
<b>Jun</b> <b>05...</b>	32
<b>Aug</b> <b>09...</b>	43

**01378560 COLES BROOK AT HACKENSACK, NJ—Continued**

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Remark codes: <, less than; >, greater than.]

<b>Date</b>	<b>Time</b>	<b>Temper- ature, water, deg C (00010)</b>	<b>Entero- cocci, m-E MF, water, col/ 100 mL (31649)</b>	<b>E coli, m-TEC MF, water, col/ 100 mL (31633)</b>	<b>Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)</b>
<b>Jul</b>					
<b>12...</b>	1056	23.5	720	200	1,300
<b>19...</b>	1103	23.5	9,100	<10	>16,000
<b>26...</b>	1101	22.4	390	700	2,400
<b>Aug</b>					
<b>02...</b>	1050	26.4	430	310	800
<b>09...</b>	1106	21.7	140	110	300